# Phase End Project Taxi Service Automation using TestNG, Jenkins, Docker, AWS

# Step1:

Create a maven project and add the dependencies and write the test scripts with chromedriver.exe

# Step2:

While running in parallel method the test cases were fast and due to some bugs somes of test cases run in the next run.

## Step3:

Create a maven jenkins automation give the pom.xml file path and then maven clean and maven test, this creates a automated test in jenkins

## Testng.class

package com.test;

```
import org.openqa.selenium.By;
import org.openqa.selenium.JavascriptExecutor;
```

import org.openqa.selenium.Keys; import org.openqa.selenium.WebDriver;

import org.openqa.selenium.WebElement;

import org.openqa.selenium.chrome.ChromeDriver;

import org.openqa.selenium.interactions.Actions;

import org.testng.annotations.AfterSuite;

import org.testng.annotations.AfterTest;

 $import\ org. testng. annotations. Before Suite;$ 

 $import\ org. testng. annotations. Before Test;$ 

import org.testng.annotations.Test;

public class AutomationofEcommerce {

public WebDriver driver;

```
public String baseurl="https://www.flipkart.com/";
```

```
@Test
 public void Searchproducts() {
       //Waiting for the page to Load
        try {Thread.sleep(5000);} catch (InterruptedException e)
{e.printStackTrace(); }
        WebElement
closebtn=driver.findElement(By.xpath("/html/body/div[2]/div/div/button"));closebtn.c
lick();
        WebElement mobiles =
driver.findElement(By.linkText("Mobiles"));mobiles.click();
        WebElement searchbox = driver.findElement(By.name("q"));
        searchbox.sendKeys("IPhone 13");
        WebElement searchbutton =
driver.findElement(By.xpath("/html/body/div/div/div[1]/div[1]/div[2]/div[2]/form/div/
button"));
        searchbutton.click();
 }
 @Test
 public void performancetest() {
       long startTime = System.currentTimeMillis();
        try {Thread.sleep(5000);} catch (InterruptedException e)
{e.printStackTrace();}
        long pageLoadTime = System.currentTimeMillis() - startTime;
        System.out.println("Page load time: " + pageLoadTime + " milliseconds");
 }
 @Test
 public void loadtest() {
        try {Thread.sleep(5000);} catch (InterruptedException e)
{e.printStackTrace();}
       java.util.List<WebElement> images =
driver.findElements(By.tagName("img"));
        JavascriptExecutor js = (JavascriptExecutor) driver;
   long viewportHeight = (Long) js.executeScript("return window.innerHeight");
   for (WebElement image : images) {
```

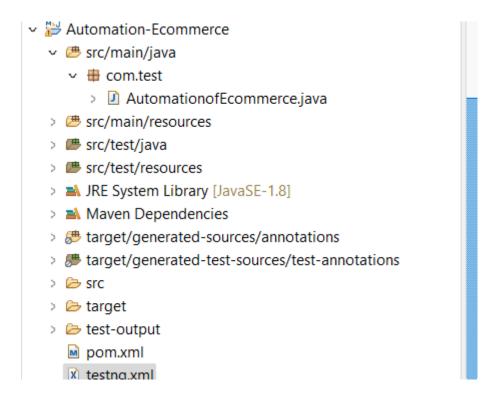
```
boolean isLoadedAndVisible = (Boolean) js.executeScript("var img =
arguments[0];" + "var rect = img.getBoundingClientRect();" +"return rect.top >= 0
&& rect.bottom <= arguments[1];",image, viewportHeight);
     if (isLoadedAndVisible) {
        System.out.println("Image is loaded and visible within the viewport height: "
+ image.getAttribute("src"));
      } else {
        System.out.println("Image is NOT loaded and visible within the viewport
height: " + image.getAttribute("src"));
     }
   }
 @Test
 public void scrolltest() {
       Actions scrollpage=new Actions(driver);
scrollpage.sendKeys(Keys.PAGE DOWN).sendKeys(Keys.PAGE DOWN).sendKey
s(Keys.PAGE DOWN).pause(2000).sendKeys(Keys.PAGE UP).sendKeys(Keys.PA
GE UP).build().perform();
 }
 @Test
 public void imageloadtest() {
       try {Thread.sleep(5000);} catch (InterruptedException e)
{e.printStackTrace();}
       WebElement imageElement = driver.findElement(By.tagName("img"));
   int imagePositionY = imageElement.getLocation().getY();
   JavascriptExecutor jsExecutor = (JavascriptExecutor) driver;
   jsExecutor.executeScript("window.scrollTo(0, arguments[0]);", imagePositionY);
   try {Thread.sleep(5000);} catch (InterruptedException e) {e.printStackTrace();}
   boolean isImageDisplayed = imageElement.isDisplayed();
   if (isImageDisplayed) {System.out.println("The image is downloaded and
displayed in time.");} else {
     System.out.println("The image is NOT downloaded and displayed in time.");
 }
 @Test
```

```
public void verfiyscrolltest() {
        try {Thread.sleep(5000);} catch (InterruptedException e)
{e.printStackTrace();}
   JavascriptExecutor jsExecutor = (JavascriptExecutor) driver;
   jsExecutor.executeScript("window.scrollTo(0, document.body.scrollHeight);");
   try {Thread.sleep(2000);} catch (InterruptedException e) {e.printStackTrace();}
   long currentPosition = (Long) jsExecutor.executeScript("return window.scrollY;");
   long maxScrollHeight = (Long) jsExecutor.executeScript("return Math.max(
document.body.scrollHeight, document.body.offsetHeight,
document.documentElement.clientHeight, document.documentElement.scrollHeight,
document.documentElement.offsetHeight );");
   if (currentPosition == maxScrollHeight) {
      System.out.println("Navigated to the bottom of the page.");
   } else {
      System.out.println("Did NOT navigate to the bottom of the page.");
 }
 @BeforeTest
 public void beforeTest() {System.out.println("Starting the test..");}
 @AfterTest
 public void afterTest() {System.out.println("Finished.");}
 @BeforeSuite
 public void beforeSuite() {
System.setProperty("webdriver.chrome.driver","C:\\Users\\Swaroop\\Desktop\\Eclipse
Workspace\\chromedriver.exe");
       driver = new ChromeDriver();
        driver.get(baseurl);
 }
 @AfterSuite
 public void afterSuite() {
       driver.quit();
 }
```

```
}
```

#### Testng.xml

```
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE suite SYSTEM "https://testnq.org/testnq-1.0.dtd">
<suite name="Suite">
<test thread-count="5" name="Test" parallel="methods">
<classes>
<class name="com.test.AutomationofEcommerce"/>
</classes>
</test> <!-- Test -->
</suite> <!-- Suite -->
```

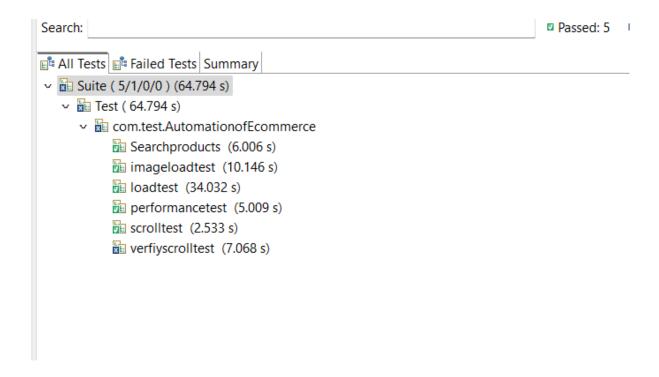


Search:

Description

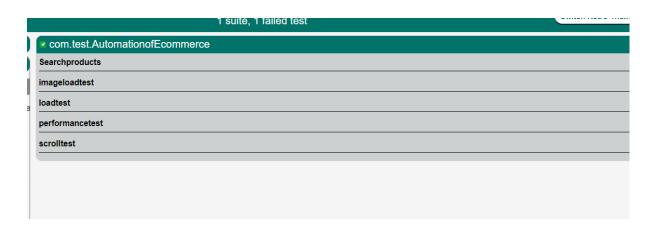
Passed: 5 Description

Tests: 1/1 No Skipped: 0 T



## (due to some selenium bugs the test cases some test cases pass in the next run)

```
cterminated> Automation-Ecommerce_testng.xml [TestNG] C\(Users\Swaroop\p2\pool\plugins\org.eclipse.justj.openjdkhotspot.jre.full.win32.x86_64_17.07.v20230425-1502\jre\binjavaw.exe (31-
Image is NOT loaded and visible within the viewport height: data:image/svg+xml;base64, PHN2ZyB4bWxucz0iaHR0cDovL3d3dy53My5vcmcvMjAw
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Image is
```



## Enter an item name

AutomationEcommerce

» Required field



## Freestyle project

This is the central feature of Jenkins. Jenkins will build your project, combining any SCM with



#### Maven project

Build a maven project. Jenkins takes advantage of your POM files and drastically reduces the



#### Pipeline

Orchestrates long-running activities that can span multiple build agents. Suitable for building



## Multi-configuration project

Suitable for projects that need a large number of different configurations, such as testing on



#### Folder

Creates a container that stores nested items in it. Useful for grouping things together. Unlike as they are in different folders.



#### Multibranch Pipeline

Creates a set of Pipeline projects according to detected branches in one SCM repository.



#### Organization Folder

Creates a set of multibranch project subfolders by scanning for repositories.

ok create a new item from other existing, you can use this option:

Pre Steps

Add pre-build step \*

Build

Root POM ?

C:\Users\Swaroop\Desktop\EclipseWorkspace\Automation-Ecommerce\pom.xml

Goals and options ?

clean test

Post Steps

Image is NOT loaded and visible within the viewport height: https://static-assets-web.flixcart.com/batman-returns/batman-returns/pimages/gift-cards-image-d3ff24.svg
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Image is loaded and visible within the viewport height:
data:image/svg+xml;base64,PHNIZY@3akR@aD@inTQIGhlaNdcddD@inTQIGhlaNdcddD@inT n0dHA6Ly93d3cudzMub33nLzIwMDAvc3ZnIj48cGF0mAogICAgZD0iTTE0IDEuNDFMMTIuNTkgMEw3IDUuNT1MM 0MUw1LjU5IDdMMCAxMi410UwxLjQxIDE0TDcgOC40MUwxMi410SAxNEwxNCAxMi410Uw4LjQxIDdMMTQgMS40MVoiCiAgICBmaWxsPSIjMTExMTEyIgovPjwvc3ZnPgo=

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iPjwvcmVjdD48cGF8cGRPSJMVIISHTA9SDgwYTASHCwwLDASHSwwLDBHMjA4YTASHCwwLDASHSwwLDBINJADCW4LDASHCwxLTgtOFYxMTJ8DCw4LDASHCwxLDHyLDEwHF0iIGZpbGw9Im5vmuUIHN0cm9r2T01IZAwfDAwWCIgc3Ryb2t1LHxpmVjYXA9InJvdHSrT11
ZWpvaH49InJvdW5kI18zdHJvaZUtd2lkdg9IjE2Ij48L38hdGg-PH8hdGggZ0d1TgwLDEwHGw0MC04MGEzHiwzMiwwLDASHSwzMiwzM1V4MGgZMS45YTE1LjksMTUuOSwwLDASHSwxMIS44LDE4bC0xMiwSMmexHiwxMiwwLDASHS0xMS44LDE8bDgwIIBmahxsPSJwb25;
iMwMOAwfWOAiTHN0cm9rZ3IsaMS1V2FwPSJyb3VuZCIgc3Ryb2t1LXxpbmVqb21uPSJyb3VuZCIgc3Ryb2t1LXdpZHRoPSIwMiI+PC9wYXRoPjwvc3ZnPgo=

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PS3yb3WuZCIgc3Ryb2t1LXdp2HRoP51xH11-PC9wYXRoPjxwYXRofQ91K94McwxHT3sHOAsOOBhWz1sHz1sMcwwLDasHz1tHz3MHTc2aDYxLj1hMTUuOSwxNS45LDASMCwwLDEtLjgtWThs1TeyLTk2YTE2LDE2LDASMCwwLTEtLjgtWTR10DA11G7pbds91m5vbmU31HW DAwMCIgc3Rvb2t1LWxpbmViYXA9InJvdW5kIiBzdHJva2UtbGluZWovaW49InJvdW5kIiBzdHJva2Utd2lkdGg9IiE2Ii48L38hdGg+PC9zdmc+Cg==

Page load time: 5009 milliseconds

Did NOT navigate to the bottom of the page

Finished.

[ERROR] Tests run: 6, Failures: 1, Errors: 0, Skipped: 0, Time elapsed: 131.2 s <<< FAILURE! -- in TestSuite

[ERROR] com.test.AutomationofEcommerce.Searchproducts -- Time elapsed: 5.300 s <<< FAILURE org.openqa.selenium.NoSuchElementException:

ง ธูงบุคเสด.จะเสามหากของและGementx(eption: no such alement: Unable to locate element: {"method":"xpeth","selector":"/html/body/div[2]/div/div/button"} (Session info: chrome=115.0.5790.110)

(Session and). Concerns (Session and) (Session and Session and) (Session and Session and S

Driver info: org.openga.selenium.chrome.ChromeDriver

Driver info: org.openga.selenium.chromeChr

Session ID: 02f0902a0a4cc95845a22e3ff8b89911

at java.base/jdk.internal.reflect.MativeConstructorAccessorImpl.newInstance@(Native Method)
at java.base/jdk.internal.reflect.MativeConstructorAccessorImpl.newInstance(NativeConstructorAccessorImpl.java:77)
at java.base/jdk.internal.reflect.DelegatingConstructorAccessorImpl.newInstance(DelegatingConstructorAccessorImpl.java:45)

at java.base/java.lang.reflect.Constructor.newInstanceWithCaller(Constructor.java:499)

115.0.5790.110, setWindowRect: true, strictFileInteractability: false, timeouts: {implicit: 0, pageLoad: 300000, script: 30000}, unhandledPromptBehavior: dismiss and notify, webauthn:extension:credBlob: true, webauthn:extension:largeBlob: true, webauthn Session ID: 02f0902a0a4cc95845a22e3ff8b89911 authn:extension:minPinLength: true, webauthn:extension:prf: true, webauthn:virtualAuthenticators: true}

[INFO]

[ERROR] Tests run: 6, Failures: 1, Errors: 0, Skipped: 0

[ERROR] There are test failures.

Please refer to C:\Users\Swaroop\Desktop\EclipseWorkspace\Automation-Ecommerce\target\surefire-reports for the individual test results.

Please refer to dump files (if any exist) [date].dump, [date]-jvmRun[N].dump and [date].dumpstream.

[JENKINS] Recording test results

[INFO] BUILD SUCCESS

[INFO] ----

[INFO] Total time: 03:40 min

[INFO] Finished at: 2023-07-31T21:53:35+05:30 [INFO] -----

Waiting for Jenkins to finish collecting data
[JENKINS] Archiving C:\Users\Swaroop\Desktop\EclipseWorkspace\Automation-Ecommerce\pom.xml to Automation-Ecommerce/Automation-Ecommerce/0.0.1-SNAPSHOT/Automation-Ecommerce-0.0.1-SNAPSHOT.pom hannel stopped

Finished: UNSTABLE